

(FILE 'HOME' ENTERED AT 18:04:15 ON 26 DEC 2003)

FILE 'REGISTRY' ENTERED AT 18:04:24 ON 26 DEC 2003

L1 STRUCTURE UPLOADED
L2 QUE L1

FILE 'CAPLUS, USPATFULL' ENTERED AT 18:05:07 ON 26 DEC 2003

L3 FILE 'REGISTRY' ENTERED AT 18:05:45 ON 26 DEC 2003
1953 S L1 FULL

FILE 'CAPLUS, USPATFULL' ENTERED AT 18:06:52 ON 26 DEC 2003

L4 471 S L3
L5 107552 S HERBICID?
L6 304 S L4 AND L5
L7 160 S L4 (P) L5
L8 75 S L4 (3A) L5
L9 10 S L4 (A) L5

FILE 'REGISTRY' ENTERED AT 18:17:21 ON 26 DEC 2003

L10 0 S 4-BENZOYL ISOXAZOLE/CN
L11 0 S 4-BENZOYL ISOXAZOLE
L12 2 S BENZOYL ISOXAZOLE

(FILE 'HOME' ENTERED AT 19:06:28 ON 26 DEC 2003)

FILE 'CAPLUS, USPATFULL' ENTERED AT 19:10:08 ON 26 DEC 2003

| | |
|-----|--|
| L1 | 657375 S ?PROPYLENEOXIDE OR ?PROPYLENE OXIDE OR ?PROXYLATE OR PO |
| L2 | 106018 S HERBICIDE OR CROP PROTECTION |
| L3 | 189485 S ?ETHYLENEOXIDE OR ?ETHYLENE OXIDE OR ?ETHOXYLATE OR EO |
| L4 | 58106 S L1 (P) L3 |
| L5 | 29884 S L1 (A) L3 |
| L6 | 60 S L5 (P) L2 |
| L7 | 13379 S L5 (2A) (COPOLYMER OR CO POLYMER) |
| L8 | 36 S L7 (P) L2 |
| L9 | 36 S L8 AND HERBICIDE |
| L10 | 1 S L8 AND CROP PROTECTION |
| L11 | 1 S L10 AND HERBICIDE |

L9 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1994:217651 CAPLUS
DOCUMENT NUMBER: 120:217651
TITLE: 4-(Benzoyl)isoxazole herbicides for weed control
INVENTOR(S): Cain, Paul Alfred; Cramp, Susan Mary
PATENT ASSIGNEE(S): Rhone-Poulenc Agriculture Ltd., UK
SOURCE: Eur. Pat. Appl., 30 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 560482 | A1 | 19930915 | EP 1993-300816 | 19930204 |
| EP 560482 | B1 | 19970806 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE | | | | |
| ZA 9300769 | A | 19930908 | ZA 1993-769 | 19930204 |
| CA 2088840 | AA | 19930913 | CA 1993-2088840 | 19930204 |
| BR 9300324 | A | 19930914 | BR 1993-324 | 19930204 |
| CN 1076194 | A | 19930915 | CN 1993-101488 | 19930204 |
| CN 1057524 | B | 20001018 | | |
| AU 9332819 | A1 | 19930916 | AU 1993-32819 | 19930204 |
| AU 664229 | B2 | 19951109 | | |
| HU 63543 | A2 | 19930928 | HU 1993-293 | 19930204 |
| HU 217562 | B | 20000228 | | |
| JP 07258231 | A2 | 19951009 | JP 1993-17611 | 19930204 |
| JP 3310039 | B2 | 20020729 | | |
| IL 104614 | A1 | 19970415 | IL 1993-104614 | 19930204 |
| RO 112029 | B1 | 19970430 | RO 1993-120 | 19930204 |
| CZ 282051 | B6 | 19970514 | CZ 1993-132 | 19930204 |
| PL 172002 | B1 | 19970731 | PL 1993-297644 | 19930204 |
| AT 156483 | E | 19970815 | AT 1993-300816 | 19930204 |
| ES 2105098 | T3 | 19971016 | ES 1993-300816 | 19930204 |
| RU 2105761 | C1 | 19980227 | RU 1993-4513 | 19930204 |
| SK 280521 | B6 | 20000313 | SK 1993-64 | 19930204 |
| US 5650533 | A | 19970722 | US 1995-458817 | 19950602 |
| US 5656573 | A | 19970812 | US 1995-460093 | 19950602 |
| US 5747424 | A | 19980505 | US 1997-848909 | 19970501 |
| US 5859283 | A | 19990112 | US 1998-22051 | 19980211 |
| PRIORITY APPLN. INFO.: | | | US 1992-850128 | A 19920312 |
| | | | GB 1989-20519 | A 19890911 |
| | | | GB 1990-17539 | A 19900810 |
| | | | US 1990-580795 | B2 19900911 |
| | | | GB 1990-25469 | A 19901122 |
| | | | GB 1991-16833 | A 19910805 |
| | | | GB 1991-16835 | A 19910805 |
| | | | US 1991-742381 | B2 19910808 |
| | | | US 1991-790175 | B2 19911112 |
| | | | US 1992-850031 | B2 19920312 |
| | | | US 1992-850035 | B2 19920312 |
| | | | US 1992-850424 | B2 19920312 |
| | | | EP 1993-300816 | A 19930204 |
| | | | US 1993-108792 | B3 19930819 |
| | | | US 1995-460093 | A3 19950602 |
| | | | US 1997-848909 | A3 19970501 |

OTHER SOURCE(S): MARPAT 120:217651

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L9 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS on STN

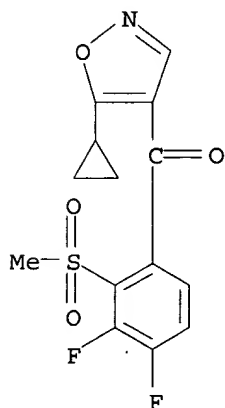
AB The title compds. I [R = H, CO₂R⁵; R⁵ = (un)branched (un)substituted C.₁toeq.6 alkyl; R¹ = Me, iso-Pr, cyclopropyl, 1-methylcyclopropyl; R² = S(O)_nR⁵¹; R⁵¹ = (un)branched C.₁toeq.4 alkyl; R³ = Cl, Br, F, (un)branched (un)substituted C.₁toeq.4 alkyl or alkoxy, C.₁toeq.6 alkenyl, etc.; R⁴ = Cl, Br, F, (un)branched (un)substituted C.₁toeq.4 alkyl, C.₁toeq.4 alkoxy substituted by .gtoreq.1 halogen atom(s), CN, etc.; n = 0-2], useful as herbicides for weed control (no data), are prepd. and I-contg. agrochem. formulations presented. Thus, 3-cyclopropyl-1-[3,4-difluoro-2-(methylsulfonyl)phenyl]-2-ethoxymethylenepropane-1,3-dione was cyclized with hydroxylamine hydrochloride, producing 5-cyclopropyl-4-[3,4-difluoro-2-(methylsulfonyl)benzoyl]isoxazole, m.p. 115-118.degree..

IT 153555-85-2 153555-86-3 153555-87-4
153555-88-5 153555-89-6 153555-90-9
153555-91-0 153555-92-1 153555-93-2
153555-94-3 153555-95-4 153555-96-5
153555-97-6 153555-98-7 153556-00-4
153556-01-5 153556-02-6 153556-03-7
153556-04-8 153556-05-9 153556-06-0
153556-07-1 153556-08-2 153556-09-3
153556-11-7 153556-12-8 153556-13-9
153556-14-0 153556-15-1 153556-16-2
153556-17-3 153556-18-4 153556-19-5
153556-20-8

RL: BAC (Biological activity or effector, except adverse); BSU
(Biological
study, unclassified); BIOL (Biological study)
(herbicidal activity of)

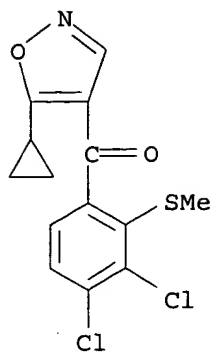
RN 153555-85-2 CAPLUS

CN Methanone, (5-cyclopropyl-4-isoxazolyl) [3,4-difluoro-2-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



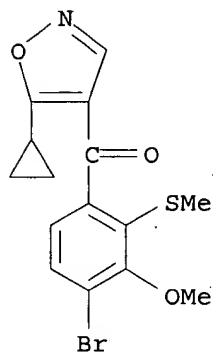
RN 153555-86-3 CAPLUS

CN Methanone,
(5-cyclopropyl-4-isoxazolyl) [3,4-dichloro-2-(methylthio)phenyl]-
(9CI) (CA INDEX NAME)



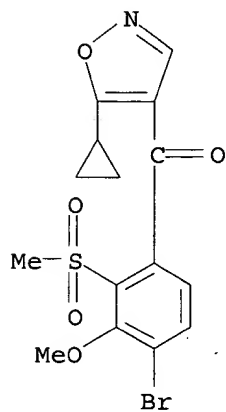
RN 153555-87-4 CAPLUS

CN Methanone, [4-bromo-3-methoxy-2-(methylthio)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



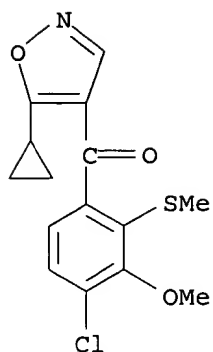
RN 153555-88-5 CAPLUS

CN Methanone, [4-bromo-3-methoxy-2-(methylsulfonyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



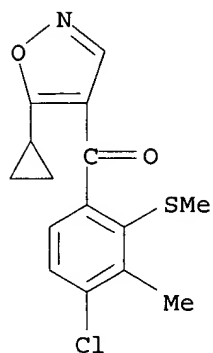
RN 153555-89-6 CAPLUS

CN Methanone, [4-chloro-3-methoxy-2-(methylthio)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



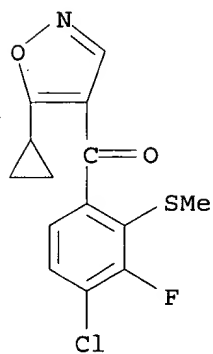
RN 153555-90-9 CAPLUS

CN Methanone, [4-chloro-3-methyl-2-(methylthio)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



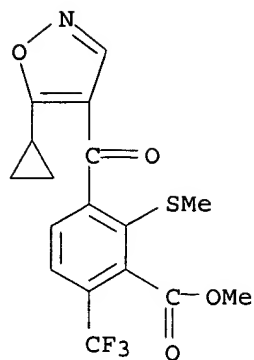
RN 153555-91-0 CAPLUS

CN Methanone, [4-chloro-3-fluoro-2-(methylthio)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



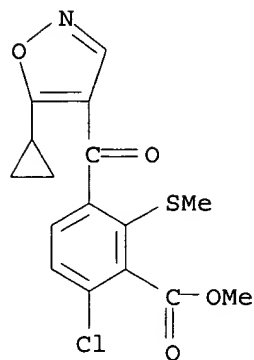
RN 153555-92-1 CAPLUS

CN Benzoic acid, 3-[(5-cyclopropyl-4-isoxazolyl)carbonyl]-2-(methylthio)-6-(trifluoromethyl)-, methyl ester (9CI) (CA INDEX NAME)



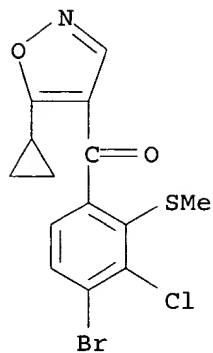
RN 153555-93-2 CAPLUS

CN Benzoic acid, 6-chloro-3-[(5-cyclopropyl-4-isoxazolyl)carbonyl]-2-(methylthio)-, methyl ester (9CI) (CA INDEX NAME)



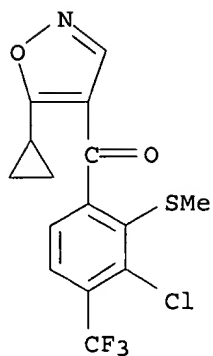
RN 153555-94-3 CAPLUS

CN Methanone, [4-bromo-3-chloro-2-(methylthio)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



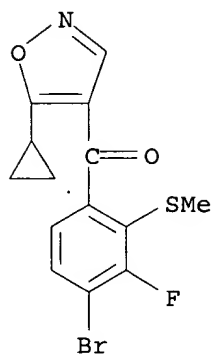
RN 153555-95-4 CAPLUS

CN Methanone, [3-chloro-2-(methylthio)-4-(trifluoromethyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



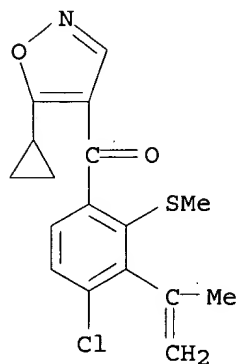
RN 153555-96-5 CAPLUS

CN Methanone, [4-bromo-3-fluoro-2-(methylthio)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



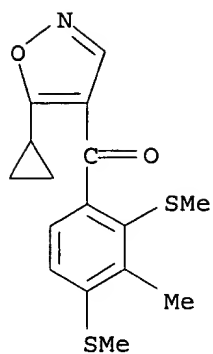
RN 153555-97-6 CAPLUS

CN Methanone, [4-chloro-3-(1-methylethenyl)-2-(methylthio)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



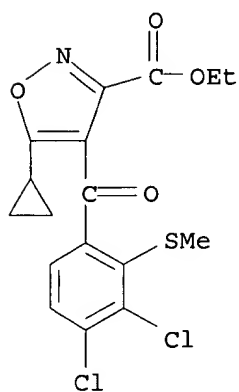
RN 153555-98-7 CAPLUS

CN Methanone, (5-cyclopropyl-4-isoxazolyl) [3-methyl-2,4-bis(methylthio)phenyl]- (9CI) (CA INDEX NAME)



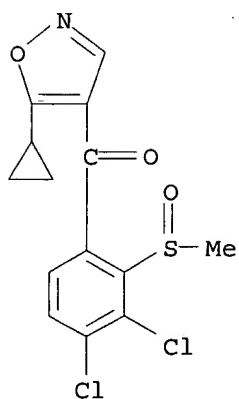
RN 153556-00-4 CAPLUS

CN 3-Isioxazolecarboxylic acid, 5-cyclopropyl-4-[3,4-dichloro-2-(methylthio)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



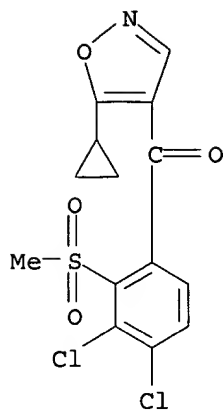
RN 153556-01-5 CAPLUS

CN Methanone, (5-cyclopropyl-4-isoxazolyl)[3,4-dichloro-2-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



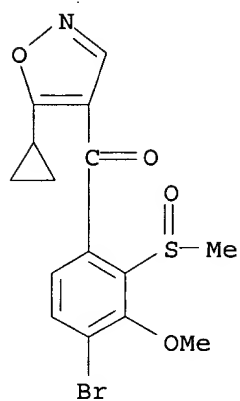
RN 153556-02-6 CAPLUS

CN Methanone, (5-cyclopropyl-4-isoxazolyl)[3,4-dichloro-2-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



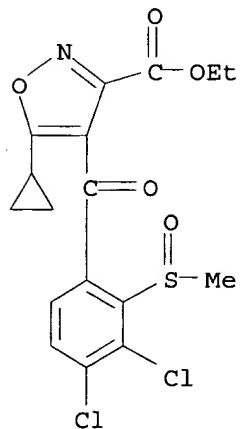
RN 153556-03-7 CAPLUS

CN Methanone, [4-bromo-3-methoxy-2-(methanesulfinyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



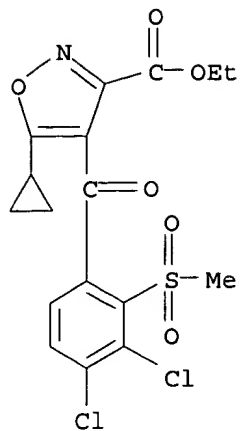
RN 153556-04-8 CAPLUS

CN 3-Isioxazolecarboxylic acid, 5-cyclopropyl-4-[3,4-dichloro-2-(methanesulfonyl)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



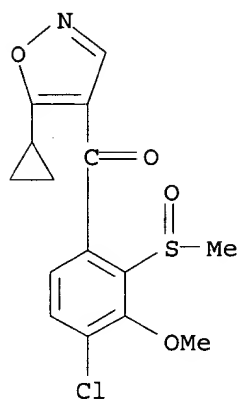
RN 153556-05-9 CAPLUS

CN 3-Isioxazolecarboxylic acid, 5-cyclopropyl-4-[3,4-dichloro-2-(methanesulfonyl)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



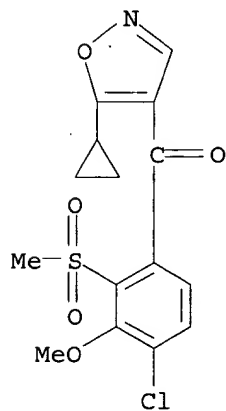
RN 153556-06-0 CAPLUS

CN Methanone, [4-chloro-3-methoxy-2-(methylsulfinyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



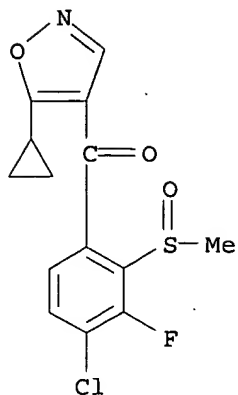
RN 153556-07-1 CAPLUS

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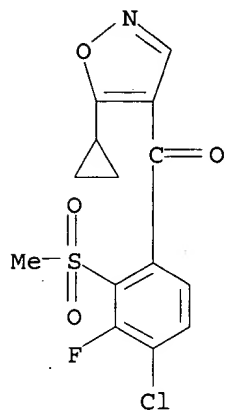
RN 153556-08-2 CAPLUS

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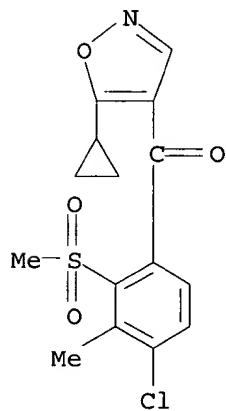
RN 153556-09-3 CAPLUS

CN Methanone, [4-chloro-3-fluoro-2-(methanesulfonyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



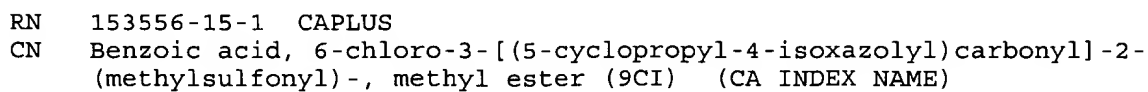
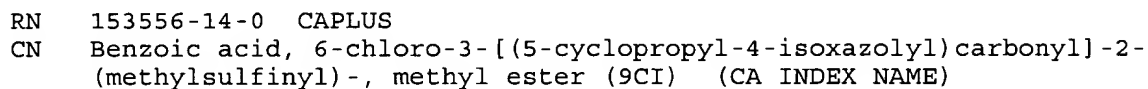
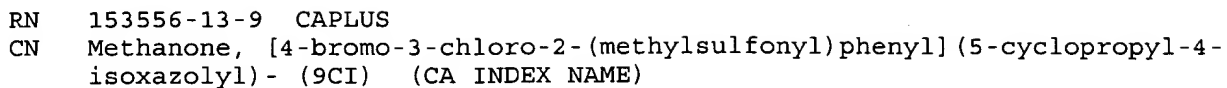
RN 153556-11-7 CAPLUS

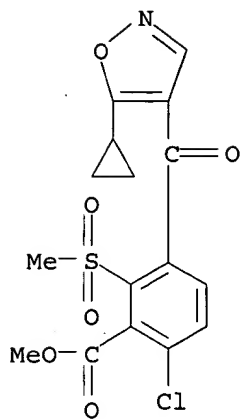
CN Methanone, [4-chloro-3-methyl-2-(methanesulfonyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



RN 153556-12-8 CAPLUS

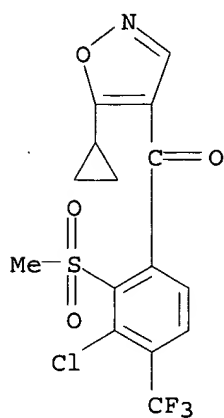
CN Methanone, [4-bromo-3-chloro-2-(methanesulfonyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)





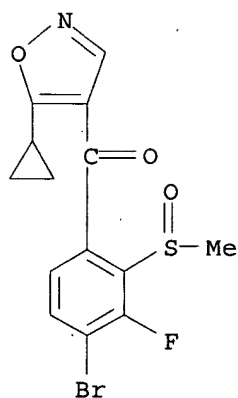
RN 153556-16-2 CAPLUS

CN Methanone, [3-chloro-2-(methanesulfonyl)-4-(trifluoromethyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



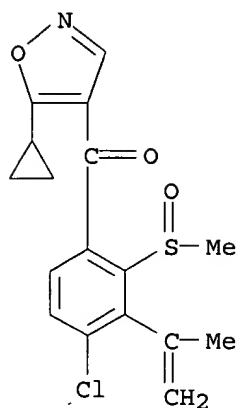
RN 153556-17-3 CAPLUS

CN Methanone, [4-bromo-3-(1-methylethenyl)-2-(methanesulfinyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



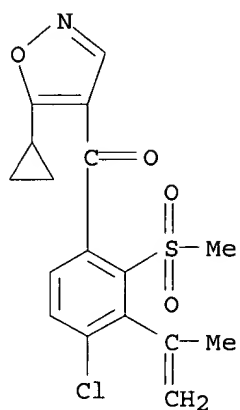
RN 153556-18-4 CAPLUS

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RN 153556-19-5 CAPLUS

CN Methanone, [4-chloro-3-(1-methylethenyl)-2-(methylsulfonyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)



RN 153556-20-8 CAPLUS

CN Methanone, [4-bromo-3-fluoro-2-(methylsulfonyl)phenyl] (5-cyclopropyl-4-isoxazolyl)- (9CI) (CA INDEX NAME)

